Agency Information Technology Plan

Mission		
Our mission: To help ensure that	it Montana's land and water resources provide benefits for present and future generations.	
	Agency Goal/Objective	State Strategic Plan Goal/Objective Reference
Goal One:	Creating a culture of excellence through professionalism, partnership, and visionary service	Goal 5 – Service First (Business Smart) Integrate business relationship management, guiding principles, and user feedback to improve communication, promote services, and share information widely
Objective One:	Improve Ticketing System Services to the Department: Objective 1a: Achieve a more robust and intuitive ticketing system with the ability to leverage ticket workflows Objective 1b: Explore expansion of a ticketing system for all of the Directors Office to provide a consistent and intuitive tool that customers would utilize when requesting services from the Director's office.	Goal 4 - Objective One: Modernization Utilize new processes and technologies to create an IT environment that enables business, improves services, and facilitates innovation.
Objective Two:	2. Improve Technology Training Program Objective 2a: Develop a program for regular delivery of technology training to department staff. Objective 2b: Develop basic IT onboarding training for new employees.	Goal 5 - Objective One: BRM Establish guiding principles for employees and promote positive business relationships. Objective Two: Communication Provide a single location to find information on our products, services, trainings, contacts, etc.; and provide clear and understandable communication to all.
Objective Three:	3. Enhanced Collaboration and Communication Objective 3a: Identify and integrate optimal collaboration tool(s) according to program needs Objective 3b: Assist the organization in disseminating public information through effective communication platforms	Goal 5 - Objective One: BRM Establish guiding principles for employees and promote positive business relationships. Objective Two: Communication Provide a single location to find information on our products, services, trainings, contacts, etc.; and provide clear and understandable communication to all.
Objective Four:		
Objective Five:		
☑ Add Goal	Agency Goal/Objective	State Strategic Plan Goal/Objective Referen
Goal Two:	Applications and Business Management: Improving the impact of IT in promoting program success	Goal 5 – Service First (Business Smart) Integrate business relationship management, guiding principles, and user feedback to improve communication, promote services, and share information widely
Objective One:	Facilitate a business analysis for major DNRC programs to guide the development of IT solutions and optimized workflows	Goal 5 - Objective One: BRM Establish guiding principles for employees and promote positive business relationships.
Objective Two:	2. Implement a stronger governance framework and associated practices for the department	Goal 5 - Objective One: BRM Establish guiding principles for employees and promote positive busines relationships.
Objective Three:	3. Develop a capability for data-driven business intelligence & analysis	Goal 4 - Objective One: Modernization Utilize new processes and technologies to create an IT environment that enables business, improves services, and facilitates innovation.
Objective Four:	4. Enhance, develop, or procure key business applications	Goal 2 - Objective Five: Agile Thinking Deliver solution and ideas that can quickly respond to deliver business value and outcomes.
Objective Five:	5. Enable electronic payment processing for key programs	Goal 2 - Objective Five: Agile Thinking Deliver solution and ideas that can quickly respond to deliver business value and outcomes.
✓ Add Goal	Agency Goal/Objective	State Strategic Plan Goal/Objective Referen
	Geospatial Integration - Leveraging spatial data and remotely sensed	Goal 2 – Optimization of shared services and support
Goal Three:	information to drive intelligent business operations	(Collaborate Smart); Optimize systems and infrastructure to deliver responsive solutions in a cost-effective manner Goal 4 - Objective One: Modernizatio Utilize new processes and technologies to create an IT environment that enables business, improves services and facilitates innovation.
Dbjective One:	Geospatial Data Management Objective 1a: Optimize enterprise spatial data management standards to accommodate business systems integration for informed decision making. Objective 1b: Develop data migration paths to populate stand-alone or siloed datasets into an enterprise storage environment.	Goal 2 - Objective One: Automate Deliver automation is all areas of IT, develop a culture of automation. Objective Two: Shared Decrease duplication and delivishared SaaS solutions when possible. Objective Three Standardization Simplify architecture and infrastructure develop standardized processes. Objective Four:

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ideas that can guickly respond to deliver business value and outcomes. 2. Data Acquisition and Distribution Objective 2: Research, identify and select a unified platform for authoritative spatial data access and Goal 4 - Objective One: Modernization Utilize new processes and technologies to create an IT Objective Two: distribution to agency staff and external end users. environment that enables business, improves services, and facilitates innovation. 3. Emerging Spatial Data Technologies Objective 3a: Working with the Director's Office and agency program staff, develop the policy for UAV operations and data management. Objective 3b: Develop standard data acquisition workflows to integrate UAV data into program business operations. Objective 3c: Optimize mobile data collection platforms for Goal 2 - Objective Five: Agile Thinking Deliver solutions Objective Three: and ideas that can quickly respond to deliver business value and outcomes. accessibility and integration into current or future program workflows Objective Four: **Objective Five:** Add Goal Agency Goal/Objective State Strategic Plan Goal/Objective Reference Continuity of Operations: Managing Risk to protect department Goal 3- Cybersecurity Enhancements and Strategy (Protect Smart) Objective Two: Protect citizen's data Goal Four: and the State's IT assets, limiting the scope and impact of potential cybersecurity events. 1. Review and improve the departmental disaster recovery posture in Goal 3 - Objective Five: Recover from cybersecurity events in a timely manner. **Objective One:** architecture, plans, and procedures Goal 3 - Objective One: Identify the people, processes, and technology that support the State's critical business processes. Objective Two: Protect citizen's data and the State's IT assets, limiting the scope and impact of 2 Review and improve internal security architecture, plans, and Objective Two: potential cybersecurity events. 3. Provide targeted information to agency personnel to educate them Goal 3 - Objective Three: Detect cybersecurity events in a timely manner Goal 5 - Objective Four: Retain, Recruit, and Train Engage human resources on hiring and retention strategies, while providing valuable Objective Three: on security best practices. training to new and current employees. Objective Four: **Objective Five:** Add Goal State Strategic Plan Goal/Objective Reference Agency Goal/Objective Goal 4– Unified Digital Government (Enterprise Smart)
Provide consolidated access to government information
and services anywhere, anytime, on any device;
Objective One: Modernization Utilize new processes Infrastructure Ensuring computing resources are proficient and Goal Five: and technologies to create an IT environment that enables business, improves services, and facilitates innovation. Objective Four: G2G (Agency-to-Agency, Government-to-Local Government, State-to-State) Implement enterprise technologies that facilitate communication, data access, and information sharing between government entities to reduce costs and increase collaboration. 1. Mobilization Technologies Objective 1a. Pilot, train staff, and deploy Goal 4– Unified Digital Government (Enterprise Smart) **Objective One:** virtual desktop infrastructure to improve service efficiency, security, and reduce computing costs Objective 1b. Increase mobile platform standards and utility across the organization Objective 1c. Continually work to provide sufficient network bandwidth for all program operations Objective One: Modernization Utilize new processes and technologies to create an IT environment that enables business, improves services, and facilitates innovation. 2. Continuous Deployment Objective 2a. Identify and select a continuous automation platform; obtain needed staff training to implement identified solution Objective 2b. Publish key applications in Goal 4– Unified Digital Government (Enterprise Smart) Objective One: Modernization Utilize new processes and technologies to create an IT environment that **Objective Two:** the continuous deployment environment enables business, improves services, and facilitates innovation. 3. Employ Digital Records Management Objective 3a. Optimize the enterprise content management solution for DNRC programs Objective 3b. Facilitate program migration to leverage digital records Goal 1 - Objective One: Cost-Effective Improve Objective Three: efficiencies, optimize costs, and maintain a balanced budget. Objective Two: Transparency Provide accurate budget. Objective Two: Transparency Provide accurate IT investment data and transparent budgeting objectives to agencies, governor's office, legislators, and any other users of IT investment data. Goal 4–Unified Digital Government (Enterprise Smart) Provide consolidated access to government information and services anywhere, anytime, on any device; Objective One: Modernization Utilize new processes and technologies to create an IT environment that enables business, improves services, and facilitates innovation. management

Objective Four:

4. Leverage Software as a Service (SaaS) and cloud-based solutions where optimal Objective 4a. Reduce need for OIT staff to manage platforms, instead investing staff resources into the integration of technology and program business solutions Objective 4b. Improve security posture through secure cloud environments and continuous deployment structures.

Goal 2 - Objective Two: Shared: Decrease duplication and deliver shared SaaS solutions when possible. Goal 4 - Objective One: Modernization: Utilize new processes and technologies to create an IT environment that enables business, improves services, and facilitates innovation. Goal 3 - Objective Two: Protect: Protect citizen's data and the State's IT assets, limiting the scope and impact of potential cybersecurity events.

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5. IT Resource asset tracking and management Objective 5a: Implement an effective IT asset tracking solution to streamline delivery, service, and replacement of IT solutions

Goal 2 - Objective One: Automate Deliver automation in all areas of IT, develop a culture of automation; Objective Three: Standardization: Simplify architecture and infrastructure; Objective Four: Capability: Simplify architecture and infrastructure,

☐ Add Goal

Link to Agency Goals and Objectives

http://dnrc.mt.gov/divisions/directors-office

Information Technology Resources and Capabilities Information Technology Resources

Summary of information technology resources:				
Bureau / Unit Name	Number of FTE	Primary Function / Missio	n	
Offic	ce of Information Technology	23	Enable the department to fulfill its mission through technology services to citizens.	
☐ Add Resource				
Information Technology Capa Summary of Systems:	bilities			
☑ I have reviewed all of my ager	ncy's systems in Assurance CM and certify that it is a	ccurate.		
Summary of Hardware:				
	ices designed for internet access and specialized bus rewalls, switches, KVM's, and USB anywhere devices		es of a fully-equipped server. Can be physical or virtual.	
17				
Total Number of Physical Servers	(Include physical servers used for virtualization. Do	not include equipment hosted by	SITSD.)	
22			<u>, </u>	
Total Number of Virtualized Serve	ers (Do not include equipment hosted by SITSD.)			
0				
Total Usable Storage Space (SAN	s and NASs. Do not include storage hosted by SITSE	D.)		
N/A				
Device Type (Including, but not limit desktops, laptops, mobile devices, printers, cameras, etc.)	ted to Quantity	Estimated F	Replacement Value	
Desktops	562	730,600		
Laptops	242	399,300		
Mobile Devices	260	208,000		
Printers	100	Varies		
Copiers	34	Varies		
Document Scanners	Varies	Varies		
Plotters	9	Varies		
Note	1	price of nev utilize older less. The O to ensure p	mated replacement values are estimates based on current w hardware. This cost is a major reason why many staff r, slower systems. Actual asset current value is significantly IT seeks to procure the correct system for the task at hand orocured systems can sustain the projected use without over to the identified need.	

Information Technology Projects

Project Name

TLMS 2.0

Annual costs upon completion

Est. \$40,000 - \$100,000 if including infrastructure, license, & hosting costs

24/2020	Agency II I lair oilli
Division	
Trust Lands Management Division	
Project / Program purpose and objectives	
Divisional Business System - Manage all aspects of land management and finan	ncial tracking for State Lands
State Strategic Plan Goal/Objective Reference	
	ced budget; Goal 2 - Objective Five: Agile Thinking Deliver solutions and ideas that can quickly
Estimated start date	
7/16/2018	
Estimated delivery date	
12/20/2022	
Estimated cost	
3063000	
HB 10 Request	
Yes	
Funding Source 1	Funding Source 1 Amount
Federal	33000
Funding Source 2	Funding Source 2 Amount
State Special Revenue	2880000
Funding Source 3	Funding Source 3 Amount
Other	150000
Annual costs upon completion	
Est \$30,000-\$40,000 including licensing and hosting (internal)	
✓ Add Project Project Name	
Water Rights Information System 2.0	
Division	
Water Resources Division	
Project / Program purpose and objectives	
Management of all Montana Water Rights in accordance with the state constitution	on and MCA
State Strategic Plan Goal/Objective Reference Goal 4- Unified Digital Government (Enterprise Smart) Provide consolidated acc First (Business Smart) Integrate business relationship management, guiding prir widely	cess to government information and services anywhere, anytime, on any device; Goal 5 – Service ciples, and user feedback to improve communication, promote services, and share information
Estimated start date	
6/21/2019	
Estimated delivery date	
12/20/2022	
Estimated cost 4167174	
HB 10 Request Yes	
Funding Source 1	Funding Source 1 Amount
State Special Revenue	1255006
Funding Source 2	Funding Source 2 Amount
General Fund	2912168
Funding Source 3	Funding Source 3 Amount
-	

Status of the project as of March 31, even numbered years. Indicate % completed and status of funds expended.			
20% complete, 11.8% expended.			
☐ Add Project			
Agency Contact Information			
Agency Director / Administrator			
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Information Technology Contact (CIO / IT Manager) Name Kreh Germaine	Phone Number 444-0575		
Email Address	Mailing Address		
KGermaine@mt.gov	1539 Eleventh Avenue, Helena, MT 59601		
Information Security Manager Name Vacant	Phone Number 444-1283		
Email Address	Mailing Address		
	1539 Eleventh Avenue, Helena, MT 59601		